

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1	("20020186506").PN.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/06/06 15:19
S2	687	(magnetic adj record\$3 adj medi\$2) same (bumps protrusion)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/06/02 15:09
S39	248	(magnetic adj record\$3 adj (layer medi\$2)) same (bump protrusion) same density	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/06/02 15:11
S40	248	(magnetic adj record\$3 adj (layer surface medi\$2)) same (bump protrusion) same density	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/06/02 15:31
S41	75	S39 and (amorphous)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/06/02 15:11
S42	79	(magnetic adj record\$3 adj (layer surface medi\$2)) same (bump protrusion) near4 density	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/06/02 15:32
S44	6	((("6164118") or ("6519114") or ("20030008099") or ("5285343") or ("5949612") or ("5062021"))). PN.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/06/06 16:26
S45	17	("5285343").URPN.	USPAT	OR	ON	2005/06/06 15:30
S46	16	("4688130" "4816933" "4829799" "4939614" "5047274" "5082709" "5093173" "5139849" "5166006" "5202810" "5285343" "5353182" "5374480" "5494721" "5656349" "5930073").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/06/06 15:33
S47	12	("4688130").URPN.	USPAT	OR	ON	2005/06/06 15:44
S49	3	("5718964" "6007896" "6017605").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/06/06 16:08
S50	3	(protrusion bump) near3 density near2 (micron micrometre micrometer)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/06/07 11:00
S51	21	((((magnetic adj record\$3 adj medi\$2) same (bumps irregularit\$3 protrusion))) near3 density)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/06/07 08:31
S52	122	(magnetic adj2 (layer medi\$2)) same ((bumps irregularit\$3 protrusion) near3 densit\$3)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/06/07 09:01

S53	6	("3670011" "5187012" "5366812" "5439722" "5585989" "6563263").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/06/07 08:52
S54	2	("5512350" "5908683").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/06/07 09:00
S55	7	(bump irregularit\$3 protrusion) near3 densit\$3 near2 micro\$5	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/06/07 09:02
S56	918	((bump protrusion) near2 density)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/06/07 09:36
S57	62	S56 same magnetic near2 layer	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/06/07 09:37
S58	1	S56 and (super near2 high near2 density)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/06/07 09:20
S59	26	S56 and (magnetic near2 medi\$2) same (amorphous)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/06/07 09:23
S60	17	("20010033949" "20010048568" "20020044523" "20020048692" "20030064251" "5599605" "5650237" "5656385" "5738927" "5952094" "6022609" "6183892" "6277462" "6319580" "6423431" "6428906" "6613460").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/06/07 09:33
S61	1391	((bump protrusion grooves) near2 density)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/06/07 09:36
S62	65	S61 same magnetic near2 layer	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/06/07 09:45
S63	1	("6800374").PN.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/06/07 09:45
S64	6	("4837116").URPN.	USPAT	OR	ON	2005/06/07 09:57
S70	14	("4707406" "5407724" "5627127" "5744226" "5767044" "5856269" "5880065" "6057028" "6077594" "6207268" "6254943" "6291062" "6309696" "6468634").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/06/07 10:00
S71	12	("5407724").URPN.	USPAT	OR	ON	2005/06/07 10:02
S72	17	("4707406").URPN.	USPAT	OR	ON	2005/06/07 10:03

S73	14	("4707406" "5407724" "5627127" "5744226" "5767044" "5856269" "5880065" "6057028" "6077594" "6207268" "6254943" "6291062" "6309696" "6468634").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/06/07 10:03
S74	2188	(protrusion asperit\$3 groove bump) near2 density	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/06/07 11:12
S75	75	S74 same (magnetic near2 layer)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/06/07 11:06
S76	2	((("5656385") or ("20020156806"))).PN.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/06/07 11:08
S78	5	(protrusion asperit\$3 groove bump) near3 diameter near2 nano\$5	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/06/07 11:14
S79	27	(protrusion asperit\$3 groove bump) same diameter near2 (nanometer or nanometre)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/06/07 11:14
S81	1	(bump protrusion projection) same (different near3 shape) near4 (lubricat\$3 protective magnetic) near2 layer	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/06/09 09:35
S82	1	(bump protrusion projection) same (different near3 shape) near4 (lubricat\$3 protective) near2 layer	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/06/09 09:35
S83	36	(bump protrusion projection) same (smoother softer shape) near4 (lubricat\$3 protective) near2 layer	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/06/09 09:55
S84	49	(bump protrusion projection) same (different distinct variable varying dissimilar) near3 (shape texture) near4 layer	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/06/09 11:14

S85	12	(720/618).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/06/09 09:55
S86	78	("4163823" "4439795" "4447270" "4452830" "4506000" "4507157" "4528240" "4587157" "4617226" "4619856" "4649073" "4654260" "4664975" "4666769" "4708906" "4741953" "4746558" "4756953" "4784895" "4794042" "4839225" "4844963" "4847147" "4851289" "4857388" "4863791" "4863793" "4865924" "4874633" "4910068" "4916024" "4943479" "4952444" "4963433" "4965120" "5030484" "5032428" "5051291" "5051303" "5093192" "5104750" "5112679" "5151323" "5156908" "5160761" "5180616" "5196265" "5219670" "5258223" "5266376" "5268206" "5300314" "5318838" "5326618" "5358777" "5384175" "5455104" "5455112" "5458948" "5489466" "5503911" "5514464" "5518804" "5532041" "5547772" "5597638" "5645917" "5672423" "5756148" "5763046" "5780141" "5792543" "5795646" "5811166" "5811172" "5827600" "5851622" "5955189").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/06/09 10:12
S90	4713	(bump protrusion projection groove) same (different distinct variable varying dissimilar) near3 layer	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/06/09 11:27
S91	193	S90 and (magnetic near2 layer)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/06/09 11:15

S92	91	S91 and ((protective lubricating) near2 layer)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/06/09 11:16
S93	592	(bump protrusion projection groove) near4 (different distinct variable varying dissimilar) near3 (multi\$1layer\$2 layer (multi adj2 laye\$2))	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/06/09 11:46
S94	724	360/59.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/06/09 11:28
S95	1	S93 and S94	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/06/09 11:28
S96	19	(bump protrusion projection groove) near3 (different distinct variable varying dissimilar) near3 (magnetic protective lubricating) near2 layer	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/06/09 11:29
S97	8	("4688130" "4816933" "4829799" "4939614" "5047274" "5093173" "5166006" "5202810").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/06/09 11:32
S98	16	("5504646").URPN.	USPAT	OR	ON	2005/06/09 11:32
S99	3	("6372367").URPN.	USPAT	OR	ON	2005/06/09 11:44
S10 1	1268	(different distinct variable varying dissimilar) near3 (protrusion bump projection irregularit\$3) near3 shape	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/06/09 12:33
S10 2	1547	(different distinct variable varying dissimilar) near3 shape near4 (protrusion bump projection irregularit\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/06/09 11:54
S10 3	83	S101 and "428"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/06/09 11:48
S10 4	4	("4770550" "5599590" "6383404" "6548139").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/06/09 11:51

S10 5	1879	(different distinct variable varying dissimilar) near3 shape near4 (protrusion bump grain projection irregularit\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/06/09 11:57
S10 6	24	S105 and "360"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/06/09 11:57
S10 7	7	("4939045" "5413835" "5427867" "5474830" "5482785" "5506017" "5550686").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/06/09 12:01
S10 8	3841	(different distinct variable varying) near3 shape near6 (protrusion bump projection irregularit\$3 particle)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/06/09 14:30
S10 9	1	(magnetic adj2 layer) same (protrusion bump) same (different near4 shape)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/06/09 12:34
S11 0	152	S108 and (record\$3 near2 medi\$2)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/06/09 12:36
S11 1	22	S108 same(record\$3 near2 medi\$2)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/06/09 12:36
S11 2	3	("5212596" "5377044" "6207263").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/06/09 12:49
S11 4	5091	(different distinct variable varying) near3 (shape structure) near6 (protrusion bump projection irregularit\$3 particle)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/06/09 14:33
S11 5	29950	(shape structure) near6 (protrusion bump)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/06/09 14:33

S11 6	20013	(shape structure) near3 (protrusion bump)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/06/09 14:34
S11 7	979	S116 and ((magnetic lubricating protective) adj2 layer)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/06/09 14:34
S11 8	451	different near2 (shape structure) near3 (protrusion bump)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/06/09 14:47
S11 9	26	S118 and ((magnetic lubricating protective) adj2 layer)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/06/09 14:47
S12 0	410	different near2 shape near3 (protrusion bump)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/06/09 14:50
S12 2	25	S120 and ((magnetic lubricating protective) adj2 layer)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/06/09 14:48
S12 3	26	("5062021" "5067037" "5200867" "5202803" "5267104" "5345353" "5418667" "5424888" "5446606" "5482497" "5499149" "5499731" "5508077" "5537273" "5550691" "5550693" "5550696" "5572386" "5586040" "5625512" "5626941" "5635269" "5726831" "5768055" "5841608" "5912791").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/06/09 14:52
S12 7	8	("3790407" "4087582" "4567096" "4567108" "4603091" "4735840" "5062021" "5082709").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/06/09 15:03
S12 9	87	thermally near2 assisted near2 record\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/06/09 15:29

S13 0	9	S129 and (protrusion bump)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/06/09 15:29
S13 3	22	(magnetic near2 layer) near3 (protrusion bump asperities irregularities projection) near3 density	US-PGPUB; USPAT; USOCR	OR	ON	2005/06/09 15:54
S13 4	445	(bump protrusion projection) same (magnetic near2 layer) same density	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/06/13 11:22
S13 5	65	S134 and (underlayer)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/06/13 09:32
S14 0	34851	(bump protrusion projection) same (different various varying) same shape	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/06/13 11:23
S14 1	18633	(bump protrusion groove projection) same (different various varying) near3 (structure shape)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/06/13 11:24
S14 2	161	(bump protrusion groove projection) same (different various varying) near3 (structure shape) near3 layer	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/06/13 11:31
S14 3	2942	(bump protrusion groove projection) near4 (different various varying) near3 shape	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/06/13 11:37
S14 4	51	S143 and "360"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/06/13 11:33
S14 5	116	S143 and "428"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/06/13 11:34

S14 7	21	(bump protrusion) same (different various varying) near3 shape near3 (layer)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/06/13 11:39
S14 8	15	(magnet\$2 near2 medi\$2) same (protusion bump asperities) near4 shape	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/06/13 11:40
S15 0	4	(average near2 thickness near4 (magnetic near2 layer)) same (protrusion bump)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/06/13 12:04